

ITA0520 – Computer Vision for Image Analysis

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Experiment: 40. Write a Python function to extract the text from videos.

Code:

```
import cv2

import pytesseract

pytesseract.pytesseract.tesseract_cmd = r"C:\Program Files\Tesseract-OCR\tesseract.exe"

v = cv2.VideoCapture("video.mp4")

while True:

    r, f = v.read()

    if not r:

        break

    g = cv2.cvtColor(f, cv2.COLOR_BGR2GRAY)

    txt = pytesseract.image_to_string(g)

    print("Extracted Text:\n", txt)

    cv2.imshow("Video Frame", f)

    if cv2.waitKey(30) & 0xFF == ord("q"):

        break

    v.release()

cv2.destroyAllWindows()
```

Input and Output:

DP 5 00:09:41 / 00:35:01 5y 4 7/24 Pl

(Party) 7771 | Thala Thalapathy: win + G @ 1 00

Team:

7771 | AIZEN

Party : S

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BW 65 00:09:41 / 00:35:01 §y 7/24 Pl